

Message Text

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ACTION SSM-05

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FM USMISSION SINAI

TO SECSTATE WASHDC IMMEDIATE 84

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C O R R E C T E D C O P Y (TEXT)

FOR STILES SSM

E.O. 11652: N/A

TAGS: PFOR, IS, EG, UN

SUBJECT: DIRECT COMMUNICATIONS BETWEEN SFM AND
TERMINALS IN JERUSALEM AND CAIRO

1. ON 24 AND 25 FEB 1976 E-SYSTEMS CONDUCTED A SURVEY TO DETERMINE FEASIBILITY OF COMMUNICATING BETWEEN SFM AND CAIRO UTILIZING THE 90 WATT VHF GE TRANSCEIVERS AT SFM, A 90 WATT VHF REPEATER IN ISMAILIA, A 90 WATT VHF TRANSCEIVER IN CAIRO. UNDER OPTIMUM CONDITIONS OF HEIGHT AND ANTENNA POSITIONING A VERY UNFAVORABLE SIGNAL LEVEL WAS RECEIVED. THIS INDICATES THAT A REPEATER WILL BE REQUIRED IN THE ISMAILIA TO CAIRO LINK IF VHF IS TO BE UTILIZED. OTHER POSSIBILITIES, SUCH AS USING A DEDICATED LAND LINE FROM ISMAILIA TO CAIRO, ARE BEING DISCUSSED WITH CAIRO. THE EVENTUAL OUTCOME OF THESE DISCUSSIONS ARE NOT KNOWN AT PRESENT: IF FAVORABLE, THEY COULD RESULT IN A SIMPLER, MORE RAPIDLY IMPLEMENTED COMMUNICATION LINK. WALLER WILL KEEP YOU INFORMED AS EVENTS DEVELOP.

2. ON 26 FEBRUARY 1976 DISCUSSIONS WERE HELD WITH IDF REPRESENTATIVES. AT THIS MEETING THE ARCHITECTURE OF THE SFM-IDF COMMUNICATIONS LINK WAS ESTABLISHED AND INTERFACES BETWEEN USG AND IDF EQUIPMENT ESTABLISHED. BASICALLY THE
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SYSTEM WILL CONSIST OF A SFM SUB-SYSTEM, A J-1 SUB-SYSTEM

AND A JERUSALEM SUB-SYSTEM. THE SFM J-1 SUB-SYSTEMS WILL BE CONNECTED THROUGH A FULL DUPLEX VHF LINK. THE J-1 JERUSALEM SUB-SYSTEMS WILL BE CONNECTED THROUGH A TELEPHONE CIRCUIT IN A MICROWAVE LINK. THE TELEPHONE CIRCUIT CONFORMS TO TYPE 4A STANDARDS. THE SFM SUB-SYSTEM CONSISTS OF A STANDARD TONE TYPE TELEPHONE, A MODEL 28 TELETYPE, A TTY PLUS VOICE MODEM, A FULL DUPLEX VHF TRANSCEIVER, AND AN ANTENNA. THE J-1 SUB-SYSTEM CONSISTS OF AN ANTENNA, A FULL DUPLEX VHF TRANSCEIVER, AND AN INTERFACE BOX WHICH COUPLES THE MULTIPLEXED TTY PLUS VOICE SIGNAL INTO THE EXISTING TELEPHONE CHANNEL. THE JERUSALEM TERMINAL CONSISTS OF A PARALLEL COMBINATION OF TTY FOR IDF, A TTY FOR UN, AND A COMMERCIAL TELEPHONE VOICE LINE FOR USE BY SFM. THE IDF LOCATED COMPONENTS IN THE JERUSALEM SUB-SYSTEM CONSIST OF A TTY PLUS VOICE MODEM, A SIEMENS T-100 TTY, A COMMERCIAL TELEPHONE SYSTEM INTERFACE, AND A SUBSCRIPTION LINE INTO THE COMMERCIAL TELEPHONE SYSTEM. THE UN LOCATED COMPONENTS CONSIST OF A TTY PLUS VOICE MODEM AND A MODEL 28 TTY. ALL EQUIPMENT IN SFM WILL BE POWERED BY 115 VOLT, 60 HZ SINGLE PHASE POWER. ALL EQUIPMENT IN J-1 AND JERUSALEM WILL BE POWERED BY 220 VOLT, 50 HZ, SINGLE PHASE POWER. THE TELEPHONE DROP LINE AT J-1 WILL BE A BALANCED, 600 OHM, FOUR WIRE LINE. THE LEVEL INTO THE LINE IS IN THE RANGE OF MINUS 10 TO MINUS 18 DB. THE OUTPUT LEVEL FROM THE LINE IS APPROXIMATELY ODB. THE BAUD RATE FOR THE TTY'S IS 50. THE CODE IS 5-LEVEL.

3. ALL EQUIPMENT IN SFM SUB-SYSTEM WILL BE PURCHASED, INSTALLED AND MAINTAINED BY USG AND CONTRACTOR. THE FULL DUPLEX VHF TRANSCEIVER AND VHF ANTENNA IN THE J-1 SUB-SYSTEM WILL BE PURCHASED BY THE USG, BUT WILL BE INSTALLED AND MAINTAINED BY THE IDF. THE IDF MAINTENANCE PERSONNEL WILL BE TRAINED AT SFM TO MAINTAIN EQUIPMENT IN THE JERUSALEM SUB-SYSTEM EXCEPT THE SIEMENS TTY AT IDF AND THE MODEL 28 TTY AT THE UN. THESE TWO UNITS ALREADY EXIST. THE USG WILL INSTALL AND MAINTAIN THE COMMERCIAL TELEPHONE SYSTEM INTERFACE, AND WILL SUBSCRIBE TO THE COMMERCIAL TELEPHONE LINE. ALL OTHER EQUIPMENT WILL BE INSTALLED AND MAINTAINED BY THE IDF AND UN RESPECTIVELY FOR THEIR TERMINALS. SPARE PARTS FOR MODEMS AND VHF TRANSCEIVERS WILL BE FURNISHED BY UNCLASSIFIED

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USG.

4. E-SYSTEMS PERSONNEL RETURNED TO U.S. ON 29 FEB TO INVESTIGATE AVAILABILITY OF COMPONENTS AND TO PROCURE REQUIRED ITEMS. REQUEST YOU COORDINATE WITH G. STANLEY CONCERNING COMPONENTS WHICH ARE IN USG INVENTORY. ALSO, REQUEST YOU STRESS WITH E-SYSTEMS THE URGENCY OF IMPLEMENTING THE SYSTEM AS QUICKLY AS POSSIBLE.

5. FURTHER REQUEST THAT SIMPLEX SYSTEM INVOLVING RELAY
BE DESIGNED FOR SFM TO CAIRO LINK AND STEPS BE TAKEN TO
HAVE E-SYSTEMS IMPLEMENT BOTH THE CAIRO AND JERUSALEM LINKS
IMMEDIATELY.

6. REQUEST ESTIMATED SCHEDULE FOR COMPLETING CAIRO LINK
AND JERUSALEM LINK BY COB 2 MARCH.
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